

14059-66
ACC NR: AP6003600

EWT(1)/EWA(j)/T/EWA(b)-2 RO/JK
SOURCE CODE: UR/0016/65/000/010/0047/0054
30

AUTHOR: Pilipenko, V. G.; Shchekina, T. A.; Verkhovtseva, G. N.

ORG: Stavropol' Plague Institute of the Caucasus and Transcaucasus (Stavropol'skiy protivochumnyy institut Kavkaza i Zavkavkaz'ya)

TITLE: Properties of a dry cutaneous associated vaccine against plague, tularemia, and brucellosis, prepared in a single ampoule

L44.5

SOURCE: Zhurnal mikrobiologii, epidemiologii i immunobiologii, no. 10, 1965, 47-54

TOPIC TAGS: vaccine, immunity, infectious disease, microbiology, brucellosis,

tularemia

ABSTRACT: Tests on animals and humans showed that the dry associated trivalent vaccine prepared by the authors in a single ampoule was equivalent to a mixture of dry standard live univalent vaccines or agar subcultures in reaction-producing properties, nature of the vaccinal process, and creation of immunity against plague, tularemia, and brucellosis. As in the univalent vaccines, the associated vaccine contained, after drying, the following quantities of live bacteria: 10-20% plague,

UDC: 615.371 : [576.851.45+576.851.48]

Card 1/2

L 14059-66
ACC NR: AP6003600

O
10-20% tularemia, and 50-60% brucellosis. The trivalent vaccine is particularly suited for large-scale production should the need arise. Orig. art. has: 4 figures, 7 tables.

SUB CODE: 06 / SUBM DATE: 11Feb65 / ORIG REF: 004 / OTH REF: 000

Card 2/2

BK

PHILAKHO, V.V.; CHERKINA, T.A.; POLYAKOVA, A.M.

Biological effectiveness of associated vaccine against
brucellosis, tularemia and brucellosis in various methods of its
epicutaneous use. Zhur. mikrobiol., epid. i immun. 44 No. 1;
1971 Jan 16.

• Stereotyped effectivity of mycobacterium vaccae vaccine.

FILIPENKO, V.G.; SHCHEKINA, T.A.; TIFLOVA, L.A.

Mechanism of the resistance of natural tularemia microfoci as related to their control problem. Zool. zhur. 44 no.4:494-506 '65.
(MIRA 18:6)

1. Nauchno-issledovatel'skiy protivochumnyy institut Kavkaza i Zakavkaz'ya, Stavropol'-Krayevoy.

PILIPENKO, V.I., inzh.; S. SHELEV, V.M., str.

Manufacture of large reinforced concrete structures for the State
Regional Electric Power Plant No.2400. Energ. stroi. no.34:6-12
'63.

1. Kuraknovskiy zavod strel'by po novym konstruktsiy (for Pilipenko).
2. Trest "Dokladnoye Stroitel'noye" (for Shelelev).

(MIRA 17:1)

PILIPENKO, V. I.

Data on the functional morphology of the peripheral nervous system;
neural cells and ganglia in vegetative nerves. Arkh.anat.gist. 1
embr. 32 no.1:11-17 Ja-Mr '55.
(MLRA8:9)

1. Iz laboratorii nevrogistologii imeni B.I. Lavrent'yeva (zav.
laboratoriyei Ye. K. Plechkova) Instituta fiziologii AMN SSSR
(AUTONOMIC NERVOUS SYSTEM, anatomy and histology)

PILIPENKO, V. I.

"Histophysiology of Slices of the Pericardium in Connection With
the Formation and Absorption of Fluid in the Pericardial Cavity."
Sub 9 Oct '51, Acad Med Sci USSR. 2nd Ed., p. 100.

Dissertations presented for science and engineering degrees in
Moscow during 1951.

SO: Sum. No. 480, May 55

PILIPENKO, V.I.

Materials on functional morphology of the peripheral nervous system.
Report II. Functional nature of type II Dogiel's cells. Biul.eksp.
biol.med. 41 no.5:70-74 May '56. (MLRA 9:8)

1. Iz laboratorii neyrogistologii imeni B.I.Lavrent'yeva (zav. Ye.K.
Plechkova) Instituta normal'noy patologicheskoy fiziologii (dir. dey-
stvitel'nyy chlen AMN SSSR prof. V.N.Chernigovskiy) AMN SSSR, Moskva.
Predstavlena deystvitel'nym chlenom AMN SSSR V.N.Chernigovskim.

(NERVES, physiol.

Dogiel's cells, type II, funct. in various animals)

USSR / Human and Animal Morphology. Nervous System. S-2
Peripheral Nervous System.

Abs Jour: Ref Zhur-Biol., No 14, 1958, 64793.

Author : Pilipenko, V. I.

Inst : Not given.

Title : On the question of the Morphological and Functional Characteristic of the Receptors of the Internal Organs.

Orig Pub: V sb.: Probl. morfol. nervn. sistemy, L.,
Medgiz, 1956, 72-79.

Abstract: Research in total examples of the layers of the wall of sex organs, stained with methylene blue, is particularly suitable to the study of widespread receptors covering an area of some square centimeters and ending in very fine branches in various tissue structures. The

Card 1/2

USSR/Human and Animal Morphology (Normal and Pathological)
Peripheral Nervous System

S-3

Abs Jour : Ref Zhur - Biol., No 12, 1958, No 55095

Author : Pilipenko, V.I.

Inst : Not Given

Title : Symptomatic Relationship Between the Neurons of the Vagotrophic
Nervous System's Peripheral Section

Orig Pub : Byul. eksperir. biol. i meditsiny, 1957, 43, No 4, 112-116

Abstract : The method for the complete removal of the medulla in cats
is described. After regeneration of the preganglion nerve
fibers (on the 12th-21st day after the operation), pericel-
lular mesh of very thin fibers were disclosed (which were
located on the periphery of the nerve ganglion). They were
bridged around the neurons and sometimes presented thickened
points in the form of little buttons. From time to time,
the fibers wandered from one neuron to another. A neurootomy
performed on the sensory fibers of the splanchnic nerves led
to a regeneration of these synapses, a fact which proves that

Card : 1/2

USSR / Human and Animal Morphology - Nervous System. S

Abs Jour : Ref. Zhur. - Biol., No. 22, 1958, No. 101464

Author : Pilipenko, V.I.

Inst : -

Title : Materials on the Functional Morphology of the Peripheral Nervous System. The Distribution of Sensory Neurons in Vertebrate Animals and Man.

Orig Pub : Arkhiv Anatomii, gistol., i embriol., 1958, Vol. 35, No. 1, 28-33.

Abstract : Through the entire extent of the spinal roots of a number of animals, sensory nerve cells can be demonstrated which sometimes form supplementary nerve ganglia either within or about the periphery of the roots. Nerve cells are also found along the course of the peripheral nerves far from the ganglia. Part of these belong to efferent neurons

Card 1/2

PILIPENKO, V. I.

Synaptic connections between neurons of intramural ganglia of the pelvic organs [with summary in English]. Biol. eksp. biol. i med. 46 no.8:113-118 Ag '58 (MIRA 11:10)

1. Iz laboratorii neurohistologii imeni B.I. Lavrent'yeva (zav.-kand. biol. nauk Ye.K. Plechikova) Instituta normal'noy i patologicheskoy fiziologii (dir. - deyat'itel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. Predstavlena deyat'itel'nym chленом AMN SSSR V. N. Chernigovskim.

(GANGLIA, AUTONOMIC,

synaptic connections between neurone of intramural ganglia of pelvic organs (Rus))

PILIPENKO, V.I.

Physiologicomorphological characteristics of receptors [with
summary in English]. Izv. AN SSSR Ser.biol. 24 no.1:34-44 Ja-P '59.
(MIRA 12:2)

1. Institute of Normal and Pathological Physiology Academy of
Medical Sciences of the U.S.S.R., Moscow.
(RECEPTORS (NEUROLOGY))

PILIPENKO, V.I.

Synaptic connections of the peripheral neurons with the pre-ganglionic nerve fibers and axons of peripheral sensory neurons of Dogiel's cells of the second type. Biul. eksp. biol. i med. 49 no. 4:118-121 Sp '60. (MIRA 13:10)

1. Iz Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.N. Chernigovskiy) AMN SSSR, Moskva. (NERVES, PERIPHERAL)

PILIPENKO, V.I. [Pylypenko, V.I.]

Experimental morphological investigations of interneuronal
connections of the spinal cord. Fiziol.shur.Ukr. 6 no.4:470-
480 Jl-Ag '60. (MIRA 13:7)

1. Institut normal'noy i patologicheskoy fiziollogii ANN SSSR,
Moskva.
(SPINAL CORD)

PARIN, V.V., otv. red.; VOLOKHOV, A.A., zam. etv. red.; NIKITINA,
G.M., red.; PILIPENKO, V.I., red.; CHUMAK, V.I., red.;
EVKOV, V.D., red.; YUDKEVSKAYA, N.I., tekhn. red.

[Problems in the physiology and pathology of the central nervous
system of man and animals in ontogenesis] Voprosy fiziologii
tsentral'noi nervnoi sistemy cheloveka i zhivotnykh v ontogene-
ze; sbornik nauchnykh rabot. Moskva, Medgiz, 1961. 223 p.
(MIA 15:8)

1. Akademiya meditsinskikh nauk SSSR, Moscow.
(NERVOUS SYSTEM)

PILIPENKO, V.I.

Central regulation of the inflow of sensory impulses in the light of
some general regularities in the structural and functional organization
of the central nervous system. Zhur. vys. nerv.deiat. 11 no.5:884-894
(MIRA 15:1)
S-O '61.

1. Laboratory of Comparative Ontogenesis of the Nervous System,
Brain Institute, U.S.S.R. Academy of Medical Sciences, Moscow.
(NERVOUS SYSTEM)

PILIPENKO, V.I.

Significance of a recurrent axon collateral in the structural organization of nerve centers. Biul. eksp. biol. i med. 53 no.2:106-111 F '62. (MIRA 15:3)

1. Iz laboratorii srovnitel'nogo ontogeneza nervnoy sistemy (zav. - prof. A.A. Vol'shov) Instituta normal'noy i patologicheskoy fiziologii (dir. - deystvitel'nyy chlen AMN SSSR V.V. Parin) AMN SSSR, Moskva. Predstavlena deystvitel'nym chlenom AMN SSSR V.V. Parinym.

(NERVES—ANATOMY)

I 22450-66 EWT(1)/EWT(m)/EVP(f)/T-2 WW/DJ
ACC NR: AP6002537 SOURCE CODE: UR/0286/65/000/023/0039/0039

AUTHORS: Zinov'yev, V. S.; Rassarenov, R. G.; Pilipchuk, V. I.; Sukharev, A. P.

ORG: none

TITLE: Diaphragm compressor. Class 27, No. 176656

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 23, 1965, 39

TOPIC TAGS: diaphragm, compressor, gas compressor

ABSTRACT: This Author Certificate presents a diaphragm compressor. The compressor includes a case divided by a diaphragm into two chambers (one pneumatic and one hydraulic), containing a working piston with a crankshaft drive. To simplify construction and to increase reliability, the hydraulic chamber is equipped with a suction valve and a plunger-type liquid pressure compensator (see Fig. 1). The latter is placed in the piping connecting the hydraulic chamber with the lower piston chamber.

UDC: 621.512.8

Card 1/2

I. 22450-66

ACC NR: AP6002537

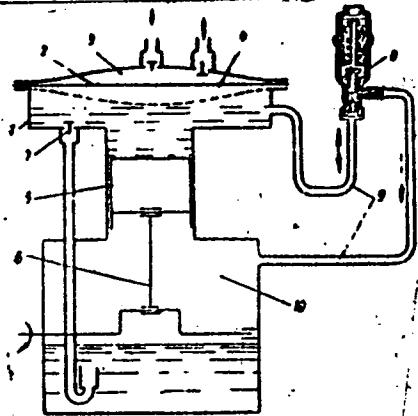


Fig. 1. 1 - case;
2 - diaphragm; 3 - gas
chamber; 4 - hydraulic
chamber; 5 - piston;
6 - crankshaft drive;
7 - suction valve;
8 - pressure compensator;
9 - piping; 10 - lower
piston chamber.

Orig. art. has: 1 figure.

SUB CODE: 13/

SUBM DATE: 18Nov64

Card 2/2 (a)

PILIPENKO, Viktor Ivanovich; SHERZHIKOV, Anatoliy Mihailovich,
FINKINSHTEYN, n.A.; trsl., Red.

[reinforced concrete plates for exterior walls
of the State regional Electric Power Plant; practice of
the Kurakhev Plant for reinforced concrete elements of
the "Iconet Basin Power Plant construction" (west) Arm-
penozdro etonnye paneii dlia naruzhnykh sten (PES; copy
Kurakhev kogo zavoda zhelzbetonnykh konstruktsii trebla
"Dnibassenergostroi." Moscow, No. 17-17, 1961, 16 p.
(MLA 17:6)

1. Moscow. Nauchno-issledovatel'skiy institut organizatsii i
mekhanizatsii i tekhnicheskoy pomoshchi strоitel'stva.
2. Glavnyy inzhener Kurakhevskogo zavoda zhelzbetonnykh
konstruktsiy (for Pilipenko). 3. Zametil'skiy avangardist
stenechnaya tsema "Dnibassenergostroy" (for Shezhikov).

PILIPENKO, V.I.

Evolutionary principle in the study of general rules of the structural organization of the central nervous system. Zhur. vys. nerv.deiat. 13 No.2:338-351 Mr-Apr'63. (MIkA 16:9)

1. Laboratory of Comparative Ontogenesis of the Nervous System, Institute of Brain, U.S.S.R. Academy of Medical Sciences, Moscow.

(NERVOUS SYSTEM) (EVOLUTION)

PILIPENKO, V.I.

Morphological and functional characteristics of the preterminal sections of the sensory and synaptic nerve endings. Arkh.anat., gist.i embr. 44 no.1:84-92 Ja '63. (MIRA 16:5)

1. Laboratoriya sravnitel'nogo ontogeneza nervnoy sistemy (zav. - prof. A.A. Volokhov) Instituta mozga AMN SSSR. Adres avtora: Moskva, per. Obukha, 5. Institut mozga AMN SSSR. (NERVES)

PILIPENKO, V.I., inzh.; SHEPELEV, V.M., inzh.

Built-up (no-attic) roofs made of mesh-reinforced fly-ash foamed concrete. Energ. stroi. no.22:55-59 '61. (MRA 15:7)

1. Kurakovskiy zavod stroymaterialov (for Pilipenko). 2. Arst
"Donbassenergostroy" (for Shepelev).
(Roofing, Concrete) (Lightweight concrete)

PILIPENKO, V.I., inzh.; SHEPELEV, V.M., inzh.

Protection of the reinforced of fly-ash foamed concrete articles from corrosion. Energ. stroi. no.22:95-98 '81. (U.S. 15:7)

1. Kurakovskiy zavod stroymaterialov (for Filipenko). 2. Trust "Donbasenergostroy" (for Shepelev).
(Concrete reinforcement) (Protective coatings)

BERENSHTEYN, S.A.; VAYSLEYB, V.P.; VARNIK, I.F.; DOBRYNCHENKO, M.V.;
YEGOROV, B.P.; KLISENKO, Yu.F.; MOGILEVSKIY, I.I.[deceased];
PEREVASLAVTSEV, N.A.; PILIPENKO, V.I.; SAPOZHNIKOV, F.V., inzh.;
SHEPELEV, V.M.; SIMULEVICH, M.L.; YARMOLINSKIY, I.M.; SHAGALOV,
Ye.S., red.; KONIKOVSKIY, I.K., red.; LARIONOV, G.Ye., tekhn. red.

[Construction of the V.I.Lenin State Regional Electric Power
Plant in Simferopol] Opyt stroitel'stva Simferopol'skoi GES
im. V.I.Lenina [by] S.A.Berenshtain i dr. l'oskva, Gosenergoizdat,
1962. 151 p.

(Simferopol--Electric power plants)

PILIPENKO, Viktor Ivanovich; SHEPELEV, Vasiliy Metod'yevich;
KASTISINA, K.N., inzh., red.

[Transporting reinforced concrete structural units by railroad; practice of the "Donbassenergostroi" Trust] Perevozka zhelezobetonykh konstruktsii zheleznodorozhnym transportom; opyt tresta "Donbassenergostroi." Moskva, Gosstroizdat, (MIRA 16:8) 1962. 38 p.

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut organizatsii, mekhanizatsii i tekhnicheskoy pomoshchi stroitel'stva. 2. Glavnyy inzhener Kurakhovskogo zavoda zhelezobetonnykh konstruktsiy (for Pilipenko). 3. Zamestitel' glavnogo inzhenera tresta "Donbassenergostroy" (for Shepelev).
(Reinforced concrete--- Transportation)

RODOV, G.S. KAN. Tekhnologicheskii inzh., Leningrad. NIKONOV, V.
inzh., Moscow, Russia.

Improving the technology of manufacturing prestressed reinforced concrete beams on the LKB extended stand. Tracy sp.-Sib.fil AIA
no.3120-131 6C
(cinders)

ACC NR: AT6034350

SOURCE CODE: UR/0000/66/000/000/0072/0078

AUTHOR: Pilipenko, V. M.

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosudarstvennyy universitet)

TITLE: The nonlinear properties of electroluminescent indicators

SOURCE: AN UkrSSR. Poluprovodnikovaya tekhnika i mikroelektronika (Semiconductor engineering and microelectronics). Kiev, Naukova dumka, 1966, 72-78

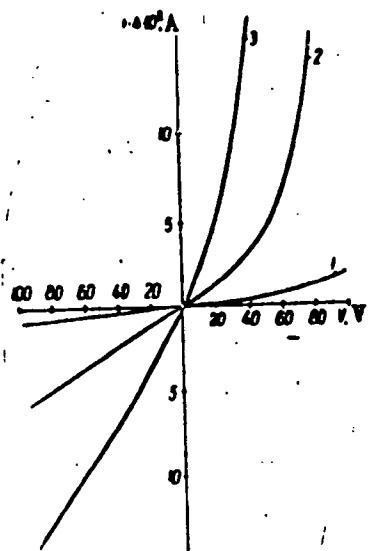
TOPIC TAGS: volt ampere characteristic, phosphor, electroluminescence, semiconductor rectifier, resin, audio frequency oscillator/ EL-510M phosphor, K-411-02 resin, K-421-02 resin, EP-096 resin, ZG-10 audio frequency oscillator

ABSTRACT: The nonlinear properties of electroluminescent indicators were studied. The specimens were prepared from EL-510M phosphor by the usual method, and the dielectric binders were K-411-02 and K-421-02 polymerized resins, a 50% mixture of them, and EP-096. The phosphor was applied to a glass substrate with a transparent conducting coating. After 1.5 hours' drying at room temperature, the specimens were placed in a thermostat at 165°C for 1.5 hrs. The voltage from a ZG-10 audio oscillator was fed to the specimens through an isolating capacitor. The voltage on the specimen was measured with a VKS-7B vacuum-tube voltmeter. Analysis of the volt-ampere characteristics showed them to be similar to those of ordinary semiconductor rectifiers (see Fig. 1). The application of ac voltage to the samples and increasing the

Cord 1/2

ACC NR. AT6034350

Fig. 1. Volt-ampere characteristics:
1 - unexcited; 2 and 3 - excited



frequency of the voltage lead to an increase in the direct current through the specimen. Orig. art. has: 1 diagram, 1 formula, and 3 graphs.

SUB CODE: 09/ SUBM DATE: --Dec64/ ORIG REF: 003/ OTH REF: 001

Cord 2/2

ACC NR: AP7004971

SOURCE CODE: UR/0048/66/030/009/1454/1457

AUTHOR: Yakunin, A.Ya.; Pilipenko, V.M.

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosudarstvennyy universitet)

TITLE: Variation of the through conductivity of ZnS:Cu electroluminophors during radiation /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 19-23 Sept. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 9, 1966, 1454-1457

TOPIC TAGS: electroluminescence, electric conductivity, impact ionization, zinc sulfide, copper

ABSTRACT: The authors have measured the direct conductivity of ZnS:Cu electroluminescence cell as a function of the temperature and the voltage of the 20 kHz alternating potential applied to excite it to luminescence. It was found that $\log(\log(I/I_0))$ is a linear function of $1/V$ for fixed temperature T , where I is the direct conduction current, I_0 is a constant, and V is the alternating exciting voltage. This relation is consistent with the simple impact ionization mechanism of current carrier multiplication. When $\log(\log(I/I_0)/T)$ was plotted against T for fixed V there resulted a broken line with a single knee at about 350° K. The straight line dependence is in accordance with the impact ionization mechanism, and the knee is explained by assuming that charges are preferentially freed at different temperatures from different levels. The derivatives dI/IdV and dB/BdV , where B is
Card 1/2

ACC NR: AP7004971

the brightness of the luminescence, were calculated from the experimental curves and plotted against V. The value of dI/dV passed through a maximum as a function of V, and the value of V for maximum dI/dV was a linear function of T. This behavior is also consistent with the simple impact ionization mechanism. It is concluded that the electroluminescence of ZnS:Cu phosphor is accompanied by increase in the electrical conductivity; that the increase in the conductivity is the greater, the more intense the luminescence; that the relation between the electroluminescence and the conductivity stems from the fact that both effects are due to ionization; and that the observed behavior of the two phenomena is not in conflict with the hypothesis that the electroluminescence is excited by impact ionization propagating through the ZnS lattice due to the presence of a strong exciting electric field. Orig. art. has: 8 formulas and 3 figures.

SUB CODE: 20 SUBM DATE: none ORIG. REF: 012 OTH REF: 004

Card 2/2

SHOPENK, V.M.; YAKOVLEV, A.Ya.

Electroconductivity of expanded dielectric materials
17 no.3418-421 S 164.

I 12622-65 EWT(1)/EEC(b)-2 IJP(c)

s/0051/64/017/003/0418/0421

ACCESSION NR: AP4044854

AUTHORS: Pilipenko, V. M.; Yakunin, A. Ya.

TITLE: Electric conductivity of excited electroluminescent cells

SOURCE: Optika i spektroskopiya, v. 17, no. 3, 1964, 418-421

TOPIC TAGS: electric conductivity, electroluminescence, photoconductivity, photoelectric cell

ABSTRACT: The laws governing the variation of electric conductivity and brightness of electroluminescent cells and their dependence on the excitation conditions was investigated in two types of samples. The electric conductivity of the samples shown in Fig. 1a of the enclosure was measured in a direction parallel to the alternating exciting electric field. The conductivity of the samples of the second type (Fig. 1b) was measured in a direction perpendicular to the field. The measurement circuits are illustrated in Fig. 2 of the

Card 1/4

L 12622-65
ACCESSION NR: AP4044854

enclosure. The test results lead to the following conclusions:
1. A glow-producing alternating voltage causes also an increase in
the electric conductivity of ZnS-Cu electroluminescent cells. 2.
The increase of the conductivity is not connected with heating of
the sample, nor is it the consequence of the internal photoeffect.
3. The law governing the variation of the electric conductivity of
ZnS-Cu electroluminescent cells excited by an alternating electric
field is analogous to the law governing the increase in electric
conductivity of the gas under impact ionization. Orig. art. has:
4 figures and 2 formulas.

ASSOCIATION: None

ENCL: 02

SUBMITTED: 06Nov63

OTHER: 002

SUB CODE: OP, EM

NR REF Sov: 006

Card 2/4

ACC NR: AP7004973

SOURCE CODE: UR/0048/66/030/009/1461/1462

AUTHOR: Kolomoytsev, F.I.; Pilipenko, V.M.; Yakunin, A.Ya.

ORG: Dnepropetrovsk State University (Dnepropetrovskiy gosudarstvenny universitet)

TITLE: On slow processes involved in the electroluminescence of ZnS:Cu phosphors /Report, Fourteenth All-Union Conference on Luminescence (Crystal Phosphors) held at Riga, 16-23 Sept. 1965/

SOURCE: AN SSSR. Izvestiya. Seriya fizicheskaya, v. 30, no. 9, 1966, 1461-1462

TOPIC TAGS: electroluminescence, zinc sulfide, copper, ^{LIGHT} aging, fatigue, rectification, electrolysis, LUMINOPHOR

ABSTRACT: The authors have investigated the processes of aging and fatigue in ZnS:Cu electroluminophors. The loss of brightness of an electroluminescent cell during operation is in part reversible (fatigue) and in part irreversible (aging). Recovery from fatigue takes place by diffusion processes and is described by the sum of two exponential terms with time constants (at 80° C) of the order of 1 and 10 hours. It is hypothesized that aging is due to electrolytic action of the rectified current through the cell. To test this hypothesis cells were operated with forward and back dc biases of such magnitude as to alter the direct current through the cell by a factor of 3. Loss of brightness during operation was found to be appreciably accelerated by the forward bias and retarded by the back bias. The recovery curves of

Card 1/2

ACC NR: AP7004973

the biased cells are not discussed. It was also found that loss of brightness could be retarded by carefully drying the cells and sealing them from moisture. A well-dried cell actually increased in brightness during the first hour of operation at 1 kHz. It is concluded that build-up of brightness can be achieved not only in certain classes of electroluminescent cells, but in all types of them, by taking measures to reduce to a minimum the effects of rectification. Orig. art. has: 3 figures.

SUB CODE: 20 SUBM DATE: none ORIG. REF: 003 OTH REF: 001

Card 2/2

PALATINE, ILLINOIS, U.S.A.; VERSO, VERSO, VERSO, VERSO, VERSO, VERSO,
VERSO, VERSO, VERSO, VERSO, VERSO, VERSO, VERSO, VERSO, VERSO, VERSO,

X-ray study of the effects of metal implants
on bone formation.

File ref.: metal implants.

1. Knut Kjaer

L 1355-66	EWP(W)/EWP(1)/EWP(t)/EWP(b)	IJP(c)	JD/HW
ACCESSION NR: AF5021938		MR/0126/65/020/002/0200/0267	
		539.292; 548.4	
AUTHOR: Palatnik, I. S.; Kou'm, A. A.; Pyko, M. Ya.; Pilipenko, V. V.	44,55	44,55	44,55
TITLE: X-ray examination of packing defects in vacuum-condensed cobalt films			
SOURCE: Fizika metallov i metallovedeniye, v. 20, no. 2, 1963, 280-287		27	44,55
TOPIC INDEX: crystal lattice defect, cobalt, metal film, vaporization, crystal lattice structure			
ABSTRACT: Crystal-structure defects in vacuum-condensed Co films are relatively uninvestigated. Yet they are of special interest in view of the presence in Co of a polymorphic transformation with signs of a martensitic nature. Hence, the authors investigated, by means of a X-ray diffractometer, the packing defects, dispersity of regions of coherent scattering, and randomness of distribution of microdeformations in specimens of ~ 4 μ thick vacuum-evaporated pure (99.95%) cobalt film with different proportions of hexagonal and cubic Co modifications. Deformation-caused packing defects were detected in hexagonal cobalt Co ^h . In the presence of substrate temperature $T_s = 240^\circ\text{C}$ their probability is $\alpha = 0.057$.			
Card 1/3			

L 1355-66

ACCESSION NR: AP5021938

3

whereas at $T_g = 475^\circ$ they were not detected at all. The dependence of the dimensions of regions of coherent scattering (r.c.s.) and magnitude of microdeformations on T_g is nonmonotonic. At $T_g = \sim 380^\circ\text{C}$ the r.c.s. decrease and microdeformations increase, which is in agreement with the decrease in the microhardness of the film. The film containing mostly cubic cobalt Co^c displays both types of packing defects at $T_g = 240^\circ\text{C}$. Deformation-caused packing defects are less heat-resistant than growth defects; at 530°C they can no longer be detected, whereas the probability of growth defects persists as far as 610°C , at which temperature two varieties of cubic Co can be detected: one defect-free, forming in the process of heating, and the other with growth defects, forming in the process of condensation. The high probability of packing defects in vacuum-condensed cobalt films as compared with the vacuum-condensed films of other metals is conditioned by the specific nature of polymorphism in cobalt as well as by the low energy of packing defects in this metal. Harmonic analysis of line profile is the most reliable method of determining the probability of packing defects in vacuum-condensed cobalt. Orig. art. has: 3 figures, 3 tables, 4 formulas.

ASSOCIATION: Khar'kovskiy politekhnicheskiy institut im. V. I. Lenina (Khar'kov) 44,55

Card

2/3

L 1355-66
ACCESSION NR: AP5021998

Polytechnic Institute)

SUMMARY: 093Jul64

NO REP SUB: 009

ENCL: 00

SUB CODE: 00, 00

OTHER: 004

Card

def
3/3

GRINEVA, A.V., NAGAROVA, I.N.; BILIRIN, V.V.; PONIGUN, A.I.

Electrolytic method used in investigating complex formation in the systems $\text{CdCl}_2 + \text{KBr} + \text{H}_2\text{O}$ and $\text{CdCl}_2 + \text{KBr} + \text{H}_2\text{O}$.
Nauch. zhegrod Khim. fak. Od. univ. no. 27-12 '61.
(MIRA 17.8)

DMITREVSKIY, V.Ye., CHINEVA, N.N., CHUPENKO, V.V.

disruption of hydrogen sulfide by grey-green sludge of *Leptothrix*
S. S. T. Nauk. zh. gizel. i. chern. fak. (d. zh. no. 2; 38-47) 1970
(MIREA 1970)

ACCESSION NR: AT4010697

8/2601/63/000/017/0132/0137

AUTHOR: Gertsriken, S.D. (Deceased); Dekhtyar, I. Ya.; Kumok, L. M.; Pilipenko, V.V.; Khazanov, M.S.

TITLE: A study of the processes of diffusion and oxidation in the alloy ZhS-6k under conditions of cyclic heat treatment

SOURCE: AN UkrRSR. Instytut metalofizyky. Sbornik nauchnykh trudov, no. 17, 1963. Voprosy fiziki metallov i metallovedeniya, 132-137

TOPIC TAGS: thermal fatigue, heat treatment, flaw formation, chromium diffusion, nickel diffusion, volatilization, concentration gradient, oxidation, alloy ZhS-6k, cyclic heat treatment, radioactive isotope, diffusion

ABSTRACT: The number of cycles of heating and cooling before the appearance of cracks is usually taken as a measure of thermal fatigue. After studying the dynamics of the appearance of cracks using the roentgenographic (X-ray) method, V.I. Arkhirov noted that it is preceded by the development of block structure and the bending and buckling of blocks. One must assume that diffusion with high temperature conditions and cyclic stresses plays an important, if not decisive, role. Diffusion and cyclic stresses lead to the separation of a

Cord 1/5

ACCESSION NR: AT4010697

second phase (carbides and intermetalloids) into a finely-dispersed state, and in addition, to the redistribution of elements between the body of the grain and the border zones; thus, these two processes do have a substantial influence on the durability of materials. As a rule, cyclic heat treatment has a negative effect on the mechanical characteristics of materials: with an increase in cycles, durability decreases. The diffusion of Cr and Ni in the alloy ZhS-6k was investigated by vaporization in a vacuum and by radioactive isotopes. If one of the components of an alloy has a comparatively high vapor tension, it will be easily vaporized when heated in a vacuum. As a result of this vaporization, a gradient of concentration will form in the alloy, and this component will evaporate from the surface to the extent that the substance arrives at the surface by means of diffusion. Measuring the quantity of evaporated substance, it is possible to determine the coefficient of diffusion of the component with high vapor tension. Calculations of this coefficient were made according to the formulas given by Grinberg and later made more precise and tabulated by Heraricken and his associates. For instance, knowing the percentage of Cr in an alloy it is possible to determine its absolute weight in a given sample. The change in the weight of the sample during heat treatments results.

Card 2/5

ACCESSION NR# AT4010697

it is assumed, from the evaporation of the volatile element Chromium. Therefore, it is possible to determine the coefficients of diffusion of Cr at various temperatures. In this particular case, the coefficients of diffusion were obtained for 5 temperature points between 1273 and 1423K. To determine the energy of activation of the process of diffusion of the alloy under investigation, the dependence of the coefficient of diffusion on temperature was utilized. High values of the energy of activation of diffusion of the alloy under investigation and its comparatively low coefficients of diffusion showed that this alloy to a considerable degree resists softening at high temperatures. Diffusional annealing of the samples was carried out in a quartz tube pumped out, filled with Argon and placed in an electric furnace. The oxidation of the alloy ZhS-6k at constant temperature was investigated. A special installation which permits weighing samples without taking them out of the furnace was developed to investigate the alloy for isothermal oxidation. Hence, continuous annealing and continuous observation of changes in weight due to oxidation was assured. Table I of the Enclosure shows the time-temperature-weight interrelation for three temperature points. The curves are in accordance with the law of parabolic oxidation. In contrast to the results of continuous heating, a decrease in the weight of samples dependent on the time of treatment took place in conditions of cyclic heat treatment. The weight

Cord 3/5

ACCESSION NR: AT4010697

decreased because of the breaking away of oxides at the moment of a sharp change in temperature. Comparison of results obtained from our alloy with the data about oxidation obtained from Nichrome (Ni-Cr-Fe alloy) showed that at 1373K the speed of oxidation of ZhS-6k is approximately 1.5 times less than that of Nichrome under similar conditions. Orig. art. has: 3 formulas, 4 figures, and 2 tables.

ASSOCIATION: Insty*tut metalofizy*ky*, AN UKrRSR (Institute of Metallurgical Physics AN UKrRSR)

SUBMITTED: 00

DATE ACQ: 31Jan64

ENCL: 01

SUB CODE: MM

NO REP Sov: 004

OTHER: 000

Cord

4/5

ACCESSION NR: AT4010697

ENCLOSURE: 01

T°, K	Interval in secs. where K=constant	K, $\frac{\text{mg}^2}{\text{sec.}}$
1273	0,36 0,36-1,8	$1,53 \cdot 10^{-4}$ $1 \cdot 10^{-4}$
1373	0-0,9 0,9-4,5	$3,3 \cdot 10^{-4}$ $1,97 \cdot 10^{-4}$
1473	0-0,054 0,054-0,18 0,18-3,6	$14,7 \cdot 10^{-4}$ $7,73 \cdot 10^{-4}$ $0,00 \cdot 10^{-4}$

5/5

GERTSRIKEN, S.D. [deceased]; DEKHTYAR, I.Ya.; KUMOK, L.M.; PILIBURKU, V.V.;
KHAZANOV, M.S.

Studying diffusion processes and oxidation in the ZnS-OK alloy un-
der the effect of thermocyclic treatment. Sbor. nauch. radiat. issled.
metallofiz. Akad. Nauk SSSR no.17:132-137 '63.

PILIPENKO, Ye.A.; ANDRFYEV, Yu.N. (deceased) (Karaganda)
Determination of adhesive forces in rubber. Zbir. fiz. zhit.
(MIFI A 17).
38 no.1:16-19 Ja'64.

KOSTRZHEVA, Yelena Ippolitovna, inzh.; BUZHIYEVSKIY, Ivan Iosifovich,
inzh.; PILIPENKO, Yelizaveta Antonovna, inzh.; SABASHNIKOVA,
Galina Petrovna, inzh.; PRANTSEVICH, N.N., inzh., retsenzent;
BONDARENKO, O.P., inzh., red.izd-va; STARODUB, T.A., tekhn.
red.

[Norms for the output, normal losses and expenditure of raw
products and materials in the processing of cattle, poultry
and rabbits, and in the manufacture of sausage products in
the meat processing enterprises of the Ukrainian S.S.R.] Normy
vykhodov, estestvennoi ubyli, raskhoda syr'ia i materialov pri
pererabotke skota, ptitsy, krolikov i vyrabotke kolbasnykh iz-
delii na miasopererabatyvaiushchikh predpriatiiakh Ukrainskoi
SSR. Kiev, Gostekhizdat USSR, 1962. 130 p. (MIRA 16:5)
(Ukraine--Meat industry--Production standards)

KALLYUS, Vyacheslav Yaroslavovich; KONDRAKYUK, I.I., kand. tekhn. nauk,
dots., retsenzert; ... retsenzent; FILIFENK^o,
I.P., inzh., red.; GORNOSTAYPOL'SKAYA, P.S., tekhn. red.

[Hay-harvesting machines; design, calculations, and the principles
of utilization] Sionuborochnye mashiny; konstruktsiya, raschet i os-
novy eksploatatsii. Moskva, Mashgiz, 1961. 274 p. (MRA L.12)
(Agricultural machinery)
(Hay-Harvesting)

89747

51330

II.310

AUTHORS:

Buyanov, R. A., Zel'dovich, A. G., Pilipenko, Yu. K.

TITLE:

Some problems of catalytic production of liquid p-hydrogen

PERIODICAL:

'Khimicheskaya promyshlennost', no. 2, 1961, 105-108

TEXT: Three methods of incorporating reaction vessels for catalytic production of p-hydrogen into the system of a hydrogen-liquefying plant are described. In the introduction, the purpose of producing p-H₂ is explained (long durability owing to low evaporation losses), as well as the use of hydrogen for producing deuterium, as charge for targets and bubble chambers and as rocket fuel. The three methods of incorporating reaction vessels are shown diagrammatically. Schemes a and b were elaborated at the kriogennaya laboratoriya (Cryogenic Laboratory) of the authors' Institute. Scheme c was proposed by A. P. Fradkov. In the liquefier of the type a the hydrogen leaving the heat exchanger (1) of the cold zone under normal pressure is branched into two currents. One part enters into the collecting vessel (4) for H₂ of normal composition (n-H₂) through throttle valve (2). The other part entering into cooling coil (3) through valve (1) is collected

Card 1/5

89747

S/CH4/61/CCC/2001/12408
F101/B 0*

Some problems of

entirely and supercooled liquid the effect of partial evap. rate is important. In (4) From (1) H₂ enters into reaction vessel (2), where it is partially converted into p-H₂. Evaporation and heating of the d₄-H₂ ends in vessel (3). The heat of conversion and the resulting heat of conversion. Dissipation of the heat of conversion and the resulting heat takes place in cooling coil (5). The pressure in the cooling coil (5) is regulated by the throttle apillaries. The p-H₂ flows through (6) into the collecting vessel (5), from where it is filled into Dewar vessels (7) and (8). The n-H₂ vapor is drawn off through the countercurrent coils of the heat exchanger. This variant does not warrant an isothermal course of the process and is therefore only suitable for the production of d₄-H₂. In the type 6 reaction vessel (2) is designed as a coil and immersed in (3). In the collecting vessel (4) for n-H₂. Heat dissipation occurs not only through the walls of (4) but also through the walls of (3). This variant permits the production of 93.7% p-H₂. The vapor can enter from (1) through valve 6 into the collecting vessel (5), where a pressure of up to 10 kg/cm² is maintained by helium valve (11). The vapor and the liquid p-H₂ flow through the countercurrent coils of the vessel (4), where the pressure is 2 kg/cm², and is led back into vessel (3).

Card 2/5

89747

S/064/61/000/008/00*/00*

B101/B206

Some problems of . . .

(1) The liquid H₂ enters from (5) into reaction vessel (2) and circulates in (3), and is drained off as p-H₂ by means of valve (6). In the variant 6' vessel (3) is fed by a separate line with H₂ enriched with 1% p-H₂. The n-H₂ circulates separately and serves only as a carrier. The H₂ to be converted is purified. It is then filled with active carbon and allowed to be converted in purifiers. It then passes through a thermally insulated tube filled with liquid N₂. Partial conversion of H₂ sets in already here. Possibilities of incorporating such reactors consisting of existing type 6' into existing plants are discussed, and it has been found that type 6' is suitable for liquefiers of high and low capacity. Type 6' is suited for liquefaction units with capacity (100-300 l/hr), which operate according to the refractory method. Type 6 is recommended for incorporation into liquefiers, where difficulties would arise when incorporating type 6'. The following situation could occur given on the basis of experimental data (Refs. 2-5). Charge of the reaction vessel with 30-40 g/l of H₂ per m³ of charge settling. The capacity of the liquefier drops by 33 to 50% when reducing p-H₂. Chromic-alkaline catalysts, Fe(OH)₃, Cr(OH)₃, and Mn(OH)₄ are mentioned as catalysts. As the catalyst, catalyst is difficult to activate (Refs. 4-5).

Card 3/5

89747

S/064/61/000/002/001/001
B101/B206

Some problems of . . .

O_2 , it is only recommended for continuous operation. The hydroxide catalysts are activated at 0.1 mm Hg by heating them at 95 to 105°C for 1.4 hr. The poisoning by O_2 is reversible. If these catalysts are filled into the reaction vessel immediately after heating, their activity is reduced, so that twice as much must be taken. They can, however, be reactivated without heating, only in a vacuum. The required amount of the catalyst is calculated from the equation:

$$\frac{V_H}{V_k} = 44.7K \left\{ \log \left[\left(1 - \frac{C_0}{C_p} \right) / \left(1 - \frac{C}{C_p} \right) \right] \right\}$$
, where V_H is the given capacity of the installation (1 P-H₂ per hr, with concentration C); V_k is the required volume of the catalyst, cm³; C_0 is the initial concentration of P-H₂ (25% as a rule); C_p is the equilibrium concentration of P-H₂ at the working temperature (99.8% as a rule); and K is the rate constant of the conversion reaction. The values of K for various catalysts are given in a table. There are 1 figure, 1 table, and 6 references. Soviet bloc and 3 non-Soviet bloc.

Card 4/5

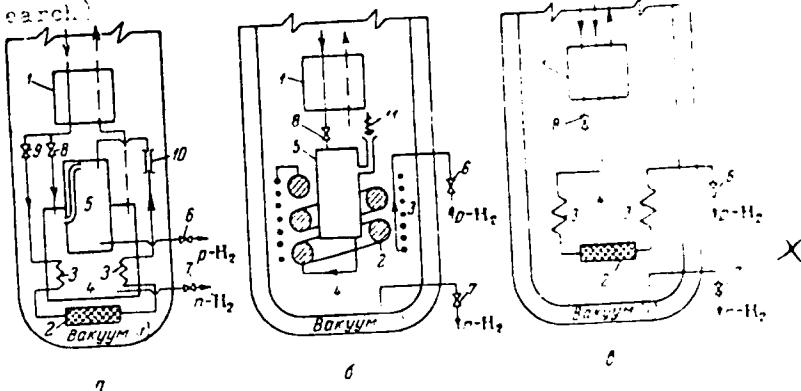
89747

S/064/61/ccc/ccc/ccc/ccc
B1C1/B2C1

Some problems of ...

ASSOCIATION: Ob'yedinenyyi institut yadernyykh issledovanii (Joint Institute of Nuclear Research)

Legend to Figure: v/vacuum



Legend to Table: 1) constants
 $K \cdot 10^3$ g-mole/cm³.sec; 2) catalysts;
 3) chrome-nickel
 Card 5/5

Катализаторы	Константы K · 10 ³ , г-моль/см ³ .сек	
	78°K	22°K
1) Хромоникелевый	1.5—1.7	1.6—2.1
Fe(OH) ₃	1.0—2.3	0.9—2.1
Cr(OH) ₃	0.56—0.74	0.56—1.1
Mn(OH) ₄	0.73—1.2	1.0—2.1

ZEL'DOVICH, A.O.; PILIPENKO, Yu.K.

Hydrogen liquifier with an output of 50 liter per hour of liquid
hydrogen. Prib. i tekhn. eksp. 6 no.2:185-187 Mr-Ap '61.
(MIRA 14:9)

1. Ob'yedinennyj institut yadernykh issledovaniy.
(Gases--Liquification) (Hydrogen)

BUYANOV, R.A.; ZEL'DOVICH, A.G.; PILIFENKO, Yu.K.

Liquifier for producing parahydrogen and catalizers for the
ortho-para conversion of hydrogen. Prib. i tekhn. eksp. 6 no.2:
188-190 Mr-Ap '61. (MIRA 14:9)

1. Ob'yedinennyi institut yadernykh issledovaniy.
(Gases--Liquifaction) (Hydrogen)

L 20840-66 EMP(t) IJP(c) WM/JW/JD

ACCESSION NR: AT5009454

CZ/0000/64/000/000/0172/0178

AUTHOR: Zeldovich, A. G.; Pilipenko, Yu. K.

TITLE: Large laboratory hydrogen liquifier V02 for use with large liquid hydrogen bubble chambers

SOURCE: Conference on Low Temperature Physics and Techniques. 3d, Prague, 1963. Physics and techniques of low temperatures; proceedings of the conference. Prague, Publ. House of the Czechoslov. Academy of Sciences, 1964, 172-178

TOPIC TAGS: bubble chamber, liquid hydrogen, para hydrogen, liquefaction technique, cryogenic device

ABSTRACT: The apparatus described is a Joule-Thomson liquifier based on a registered invention by the authors (Byulleten' izobreteni No. 19 (1960), 18), and a smaller version was described by the authors earlier (PTE no. 2 (1961), 185 and no. 4 (1963), 191). A diagram of the liquifier is shown in Fig. 1 of the Enclosure. Its rated capacity is 200 liters of para-hydrogen per hour. The considerations governing the choice of some of the components of the equipment are discussed. Tables listing different characteristics for para-hydrogen production in the liquifier and of the design calculations are presented. Calculations based on the ex-

Card 1/3

L 20840-66

ACCESSION NR: AT5009454

perimental results show that the liquifier can work with 1500 m³/hr of compressed hydrogen and hence can produce 460 and 200 liters/hour of normal and para-hydrogen, respectively. "The authors thank N. K. Zel'dovich, A. A. Belushkina, L. P. Belonogova, A. A. Demin, and G. G. Khorev who took part in the design and assembly of the liquifier." Orig. art. has: 2 figures and 2 tables.

ASSOCIATION: Ob'yedinenyyi institut yadernykh issledovaniy (Joint Institute of Nuclear Research)

SUBMITTED: 00

ENCL: 01

SUB CODE: NP

NR REF Sov: 004

OTHER: 002

Card 2/3

L 20840-66

ACCESSION NR: AT5009454

ENCLOSURE: 01

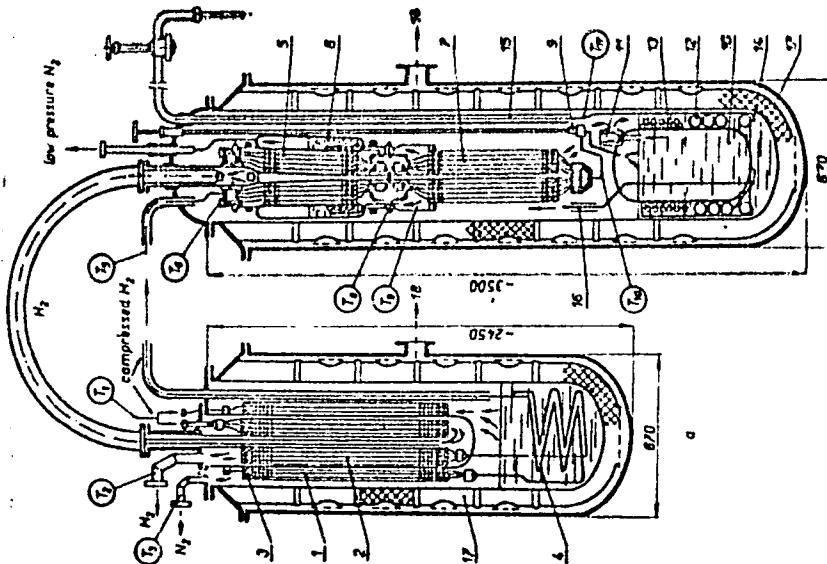


Fig. 1. The liquefier VO2.

1 - nitrogen section of exchanger "hot" zone, 2 - hydrogen section of exchanger "hot" zone, 3 - fittings, 4 - coil in liquid nitrogen bath, 5 - heat exchanger of "intermediate" zone, 6 - nitrogen low pressure bath, 7 - heat exchanger "cold" zone, 9 - throttle valve, 10 - subsidiary collector, 11 - pneumatic valve, 12 - reactor, 13 - condensing coil, 14 - supplementary reactor, 15 - outlet valve for para-hydrogen, 16 - outlet valve for normal hydrogen, 17 - Dewar flask, 18 - To the vacuum pump.

Card 3/3

L 15680-65 EWT(m)/EPP(c)/EPR/FCS(f)/EMP(t)/EMP(b) Pr-4/PB-4 ASD-3/
AFFTC/AFMDC/ESD-3/IJP(c)/RPL BW/JD/WH/JW
ACCESSION NR: AP4047490 S/0120/64/000/005/0203/0206

AUTHOR: Zel'dovich, A. G., Filipenko, Yu. K.

TITLE: VO2 hydrogen liquefier intended for supplying large liquid-hydrogen
chambers

SOURCE: Pribory* i tekhnika eksperimenta, no. 5, 1964, 203-206

TOPIC TAGS: liquefier, hydrogen liquefier / VO2 hydrogen liquefier 0

ABSTRACT: A new large-capacity hydrogen liquefier is described which has been designed along the lines of the authors' earlier smaller-capacity liquefiers (PTE, 1961, no. 2, 185, and PTE, 1963, no. 4, 191). The new liquefier's technical characteristics are: 125-atm-compressed-hydrogen input, 725 nm³/hr; liquid-normal-hydrogen output, 230 litr/hr at a liquification ratio of 25%; liquid-para-hydrogen output, 140 litr/hr at l.r. 15%; para-hydrogen concentration, up to 98%; liquid nitrogen flow, 1.15 liter per one liter of normal H₂; principal-

Card 1/2

L 15680-65
ACCESSION NR: AP4047490

6
collector pressure, 0.3 atm; nitrogen-bath vacuum, 630 torr; starting time, under 1 hr, 10 min; warming-up (to room temperature) time, under 2 hr, 30 min; other details given. Cross-sections and appearance of the liquefier are presented. "The authors are deeply grateful to N. K. Zel'dovich, A. A. Belushkina, L. P. Belonogova, A. A. Demin, and G. G. Khorev for their part in designing and assembling the liquefier." Orig. art. has: 3 figures and 2 tables.

ASSOCIATION: Ob'yedinenny'y institut yaderny'kh issledovaniy (Joint Nuclear Research Institute)

SUBMITTED: 05 Oct 63

ENCL: 00

SUB CODE: IE, NP

NO REF SOV: 004

OTHER: 002

Card 2/2

PILIPENKO, V. K. ... lavnyy vrach

Nicotinic acid (vitamin PP) in the treatment of sciatica. Zdrav. Belor
5 no. 2:48-49 P '59. (MIRA 12:7)

1. Khvojenskaya sel'skaya bol'nitsa Turovskogo rayona Gomel'skoy
oblasti.
(NICOTINIC ACID) (SCIATICA)

FILIPENKO, Ye.G.; SAMOYLOVA, V.P. (Kiev)

Group preventive procedure for children up to 1 year of age
in the mother and child room. Sov. zdravookhr. 12 no. 3t. - 7.
(MIRA 1986)
Iz detskoj kliniki u bol'nitsy Sovetskogo rayona Kiev.

VENTSEL', Sergey Veniaminovich; BARABASH, M.L., kand. tekhn.
nauk, retsentent; LOSIKOV, B.V., doktor tekhn. nauk,
prof., red.; PILIPENKO, Yu.P., inzh., red.;
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Lubrication of internal combustion engines] Smazka dvi-
gatelei vnutrennego sgoraniia. Moskva, Mashgiz, 1963. 179 p.
(MIRA 16:4)

(Gas and oil engines--Lubrication)

D'OMIN, A.I., nauchnyy sotr.; PILIPENKO, Yu.P. [Pylypenko, I.U.P.],
prepodavatel' sredney sholy; TKHORZHEVSKIY, D.O.
[Tkhorzhevs'kyi, D.C.], red.; SHEVCHENKO, L.I., tekhn.red.

[Classes in fitting and repairing; tractor repair]Uroki z
sliusarno-remontnoi spravy; remont traktora. Za red. K.I.
Shvetsova. Kyiv, Radians'ka shkola, 1962. 74 p.
(MIRA 16:3)

1. Nauchno-issledovatel'skiy institut peagogiki Ukr.SSR (for
D'omin).
(Tractors--Maintenance and repair)

BELOTSERKOVSKIY, Aron Grigor'yevich, inzh.; MIKHALEVICH, Aron Abramovich,
inzh.; KALISSKIY, V.S., inzh., retsenzent; PILIPENKO, Yu.P.
inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Handbook for motor-vehicle drivers] Pamiatka voditelia avto-
mobilia. Moskva, Mashgiz, 1963. 155 p. (MIRA 16:4)
(Automobile drivers--Education and training)

NASTENKO, Nikolay Nikolayevich; BOROSHOK, Lev Abramovich;
DVOROVENKO, G.P., kand. tekhn. nauk, retsenzent; GOLOVIN,
D.D., retsenzent; PILIPENKO, Yu.P., inzh., red.;
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Automation of production processes in agriculture] Avtoma-
tizatsiya proizvodstvennykh protsessov v sel'skom khoziai-
stve. Moskva, Mashgiz, 1963. 194 p. (MIRA 16:7)
(Automation) (Agricultural machinery)

FILONENKO, Serafim Nikolayevich; AFANAS'YEV, V.F., kand. tekhn.
nauk, retsenzent; BARAB-TARLE, M.Ye., inzh., red.;
PILIPENKO, Yu.P., inzh., red.; GORNOSTAYEV, L'S'AYA, M.S.,
tekhn. red.

[Metal cutting] Rezanie metallov. Moskva, Mashgiz, 1963.
209 p. (MIRA 16:7)

(Metal cutting)

VINOGRADOV, Gleb Andreyevich, kand. tekhn. nauk; RADOMYSEL'SKIY,
Izrail' Davidovich, kand. tekhn. nauk; SAMSONOV, G.V.,
retsenzent; PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA,
M.S., tekhn. red.

[Pressing and rolling ceramic metal materials] Pressovanie i
prokatka metallokeramicheskikh materialov. Moskva, Mashgiz,
1963. 198 p. (MIRA 16:5)

1. Chlen-korrespondent Akademii nauk Ukr. SSR (for Samsonov).
(Ceramic metals)

KORNEYEV, Georgiy Vasil'yevich; SEDLETSKIY, I.D., inzh., retsenzent;
PILIPENKO, Yu. P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.
red.

[Hoisting and conveying devices of agricultural repair workshops]
Podzemno-transportnye ustroistva sel'skokhoziaistvennykh
remontnykh masterskikh. Moskva, Mashgiz, 1963. 95 p.
(MIRA 16:6)

(Hoisting machinery) (Conveying machinery)

NAYGUZ, Natan Iosifovich; BASIN, Mikhail Natanovich; MOKROV, I.I., ~~.....~~,
retsenzent; PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S.,
~~tekhn.~~ red.

[Presses for cold briquetting of metal scrap] Pressy dlia kholod-
nogo briketirovaniia metallicheskoi struzhki. Moskva, Mashgiz,
1963. 94 p.
(Power presses) (Scrap metals)

RUDINSKIY, Stepan Yakovlevich; ROZHNETSKIY, G.A., kand. tekhn. nauk,
dots., retsenzent; ZAMANSKIY, S.M., inzh., red.; PILIPENKO,
Yu.P., red.; GORNOSTAYPOL'SKAYA, N.S., tekhn. red.

[Machine tools; collected problems and laboratory work] Metal-
lorezrushchie stanki; sbornik zadach i laboratornykh rabot. Mo-
skva, Mashgiz, 1961. 380 p. (MIRA 15:3)
(Machine tools)

4/4

LEONOV, Andrey Yevstaf'yevich; KHAYMOVICH, Ye.M., prof., doktor tekhn.
nauk, retsenzent; PILIPENKO, Yu.P., red.

[Pumps used in hydraulic systems of machine tools and machinery]
Nasosy gidravlicheskikh sistem stankov i mashin. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 225 p.
(MIRA 13:12)

(Pumping machinery) (Hydraulic machinery)

YATSENKO, Viktor Avanas'yevich; GRIN', L.P., kand. tekhn. nauk,
retsenzent; PILIPENKO, Yu.P., inzh., red.; GOR'OSTAYPOL'SKAYA,
M.S., tekhn. red.

[Operation and repair of agricultural machinery] Ekspluatatsiya
i remont sel'skokhoziaistvennykh mashin. Moskva, Mashgiz,
1961. 314 p. (MIRA 15:4)
(Agricultural machinery)

DASHEVSKIY, Il'ya Isaakovich; ZASLAVSKIY, Simon Shlemovich;
FAL'KOVSKIY, B.L., inzh., retsenzont; FILIPENKO, Yu.P.,
inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Mechanization of the manufacture of metalworking and forging dies] Mekhanizatsiya izgotovleniya shtampov i press-form.
Moskva, Mashgiz, 1962. 172 p. (MIRA 15:8)
(Dies (Metalworking))

OS'MAK, Illarion Terent'yevich; STEPANENKO, K.N., inzh., retsenzent;
PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S.,
tekhn. red.

[Machines for harvesting and ensilaging green fodder] Mashiny
dlia uborki i silosovaniia zelenykh kormov. Moskva, Mashgiz,
1961. 106 p. (MIRA 15:12)
(Ensilage) (Agricultural machines)

KLEBANOV, Boris Vladimirovich, inzh.; KUZ'MIN, Vladimir Grigor'yevich, inzh.; MASLOV, Vladimir Ivanovich, inzh.; LEONOV, I.S., inzh., retsenzent; SOROKIN, A.A., inzh., retsenzent; PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Repair of motor vehicles and tractors] Remont avtomobilei i traktorov. Pod red. B.V. Klebanova. Moskva, Mashgiz. Pt. 2. 1962. 301 p.
(MIRA 16:2)

(Motor vehicles--Maintenance and repair)
(Tractors--Maintenance and repair)

KONDATYUK, Pavel Ivanovich; STEPANENKO, A.I., inzh., retsenzent;
PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S.,
tekhn. red.

[Machines for the over-all mechanization of hay harvesting]
Mashiny dlia kompleksnoi mekhanizatsii uborki trav na seno.
Moskva, Mashgiz, 1962. 156 p. (MIRA 15:7)
(Hay--Harvesting) (Harvesting machinery)

SHAL'NEV, Viktor Grigor'yevich; KONSTANTINOV, I.G., kand. tekhn. nauk,
red.; PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S.,
tekhn. red.

[Progress in forging and sheet-metal working methods] Razvitiye
metodov obrabotki metallov davleniem. Moskva, Mashgiz, 1962.
618 p. (MIA 1':1C)

(Forging) (Sheet-metal work)

DUDNIK, Prokofiy Yermolayevich; OLEYNIK, V.T., inzh., retsenzent;
PILIPENKO, Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S.,
tekhn. red.

[Burnishing and flattening tools and mandrels] Obrabotki,
raskatki i dorny. Moskva, Mashgiz, 1962. 75 p.
(MIRA 15:4)
(Metalworking machinery)

SOLOMKA, Yakov Fedorovich; VLASENKO, S.K., inzh., retsenzent; PILIPENKO,
Yu.P., inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Manufacture of bimetallic parts] Proizvodstvo dvukhsloinykh
detalei. Moskva, Mashgiz, 1962. 116 p. (MIRA 15:4)
(Metalwork) (Laminated metals)

TKACHENKO, Aleksey Yefimovich; KARPENKO, Sergey Aleksandrovich;
VORONEZHSKIY, V.I., inzh., retezant; PILIPENKO, Yu.P.,
inzh., red.; GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Machines for the over-all mechanization of field crop cultivation]
Mashiny dlja kompleksnoi mekhanizatsii rabot v polevode-
stve. Moskva, Gos. nauchno-tekhn. izd-vo mashinostroit. lit-ry,
1961. 128 p.
(Farm mechanization) (MIRA 15:2)

KORENYAKO, Aleksandr Stepanovich; KREMENSHTEYN, Lev Isaakovich;
PETROVSKIY, Sergey Dmitriyevich; OVSIYENKO, Grigoriy
Mikhaylovich; BAKHANOV, Vasiliy Yefimovich; KROLEVETS, M.S.,
dotsent, kand.tekhn.nauk, retsenzenter; PILIPEHNKO, Yu.P.,
red.; GORNOSTAYPOL'SKAYA, M.S., tekhn.red.

[Project work for course credit in the theory of mechanisms
and machines] Kursovoe proektirovanie po teorii mekhanizmov
i mashin. Izd.3., dop. i perer. Pod red. A.S.Korenjako.
Moskva, Gos.nauchno-tekhn. izd-vo mashinostroit.lit-ry,
1960. 259 p.
(Mechanical engineering) (MIRA 14:3)

VASHCHENKO, Konstantin Il'ich; SOPRONI, Laurentsio; PILIPENKO, Yu.P.,
inzh., red.

[Magnesium cast iron] Magnievyi chngun. Izd.2., dop. i perer.
Moskva, Gos.nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960.
486 p.

(Cast iron) (Magnesium)

(MIRA 13:11)

LEONOV, Andrey Yevstaf'yevich; KHAYMOVICH, Ye.M., prof., doktor tekhn.nauk,
retsenzent; PILIPENKO, Yu.P., red.

[Pumps for the hydraulic systems of machine tools and machinery]
Nasosy gidravlicheskikh sistem stankov i mashin. Moskva, Gos.
nauchno-tekhn.izd-vo mashinostroit.lit-ry, 1960. 224 p.
(MIRA 13:10)

(Pumping machinery) (Machine tools--Hydraulic driving)

DEM'IN, Anatoliy Ivanovich[D'omin, A.I.]; PILIPENKO, Yuriy Petrovich [Pylypenko, I.U.P.]; KIREYEV, Vasiliy Petrovich [Kyrieiev, V.P.]; SUSHKO, I.S., red.; BERMAN, Z.G. [Berman, Z.H.], tekhn. red.

[Repair of tractors and automobiles; manual for secondary schools]
Remont traktoriv i avtomobiliv; pidruchnyk dlja seredn'oi shkoly.
Kyiv, Derzh. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1960. 291 p.
(MIRA 14:11)

(Motor vehicles—Maintenance and repair)

PILIPENKOV, A. T.

12-124. The Use of Diphenylthiocarbamine (Dithizone) in Analysis. Part III. Dissociation Constants of Zinc, Cadmium, and Lead Dithizonates. A.N. Butko and A.T. Pilipenkov. Journal of Analytical Chemistry (U.S.S.R.), v. 2, no. 1, 1947, p. 33-42. (In Russian).

Results of a study of the composition of the above compounds in CCl_4 solution, equilibria between the dithizonates and the metal salts at different pH and concentration values, and equilibria between the dithizonates and H_2S . Relationships between the dithizonates, sulphides, and the ammoniates of the respective metals.

Immediate source clipping

ACCESSION NR: AP4011435

S/0076/64/038/001/0016/0019

AUTHORS: Pilipenko, Ye. A. (Karaganda); Andreyev, Yu. N. (Deceased, Karaganda)

TITLE: Investigation of the adhesive forces of rubber

SOURCE: Zhurnal fiz. khim., v. 38, no. 1, 1964, 16-19

TOPIC TAGS: rubber, work of adhesion, adhesive force, adhesive force determination method, divinylnitrile copolymer, natural rubber, divinylstyrene copolymers, polybutadiene polymer, nitrile group, SKN-3, SKN-18, SKN-26, SKN-40, SKI, NK, SKS-30-A, SKS-30-AM, SKD

ABSTRACT: A new method for determining the work of adhesion between a solid material and water is based on determining the adhesive forces from the motion of drops on a rotating disc surface. The adhesive forces of a number of rubbers were compared: divinyl-nitrile copolymers containing different amounts of acrylonitrile--SKS-3, SKN-18, SKN-26, SKN-40; cis-1,4-polyisoprene SKI; natural

Card 1/2

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rubber NK; divinylstyrene copolymer SKS-30-A and SKS-30-AM (the latter containing 15% "Antol-18" oil); and polybutadiene polymer SKD. The work of adhesion of the different materials in water increases with increasing number of polar groups. The increase in the number of nitrile groups sharply increases the work of adhesion and can be evaluated quantitatively. Orig. art. has: 4 tables and 3 equations.

ASSOCIATION: None

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NO REF SOV: 004

OTHER: 000

Card 2/2

L 46-15 R 7
ACC NR. 2462447

REF CODE: UR/CCS1/t/100 0000000000000000

AUTHOR: Belent'yev, P. V.; Znatenkaya, Ye. A.; Pilipenok, S. A.; Stalevich, A. M.; Petryayev, S. V.

TITLE: Deformation properties of polymeric materials

SOURCE: Ref. zh. Khimiya, Part II, Abs. 73621

REF SOURCE: Tr. N.-i. proyektno-konstrukt. in-ta tekhnol. mashinostr., no. 1, 1955,
75-95

TOPIC TAGS: thermosetting material, thermoplastic material, polymer rheology, thermoelasticity, elastic modulus, thermal expansion

ABSTRACT: Thermosetting and thermoplastic polymers in the range of small deformations were tested, and their physicomechanical characteristics were treated mathematically. The following quantities were determined: thermal extension of polyolefins, dependence of Brinell hardness on the elastic modulus and molecular weight, initial elastic modulus from the thermoelastic effect, and relationship between the latter and the coefficient of linear thermal expansion. The elastic properties of PVA fibers were studied at ~20°. On the basis of the experimental data, a nomogram of the thermoelastic properties of thermoplastic polymers was constructed which enables one to find the relationship between the initial elastic modulus, the coefficient of linear thermal expansion, and the thermoelastic coefficient. Z. Ivanova. [Translation of abstract]

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Card 1/1

L 08471-67 EWP(j)/EWT(m) IWP(c) R./W
ACC NR: AR6016475

SOURCE CODE: UR/0124/65/000/012/v096/v097

AUTHOR: Melent'yev, P. V.; Znamenskaya, Ye. A.; Pilipenok, D. A.; Stalevich, A. M.; Petryayev, S. V.

TITLE: Deformation properties of polymer materials 34

SOURCE: Ref. zh. Mekhanika, Abs. 12V829

REF SOURCE: Tr. N.-i. proyektno-konstrukt. in-ta tekhnol. mashinostr., no. 1,
1965, 75-95

TOPIC TAGS: material deformation, polymer physical property, metal deformation, poly-
ethylene plastic

ABSTRACT: The authors point out differences between the deformation properties of
polymer materials and metals. The following empirical formula is proposed for curves
describing creep in polymers under constant stresses:

$$\epsilon = a + b t^{0.2}$$

where ϵ is deformation, t is time and a and b are the curve parameters. These para-
meters are linear functions of stress; at low temperatures T the curve parameters
vary fairly smoothly as T is raised, but after T reaches some critical value (e. g.
40°C for high-pressure polyethylene) a and b increase sharply with the application of
15

Card 1/2

L 08471-67

ACC NR: AR6016475

heat. An attempt is made to establish a correiation between hardness H_B and the initial modulus E_0 . The effect which the molecular weight M of polyethylenes has on the characteristics of E_0 and H_B was studied in the range $M=5 \cdot 10^4 - 9 \cdot 10^5$. It was found in contrast to previous data (see Alfrey, T., "Mechanical Properties of High Polymers", Moscow, Izd-vo in. lit., 1962) that rigidity has a maximum in the region of moderate M . The authors suggest the use of the thermoelastic effect (more precisely, the Joule effect) for determining the initial modulus. In conclusion, data are given on the relaxation properties of various fibers, Bibliography of 10 titles. N. I. Malinin.
[Translation of abstract]

SUB CODE: 11, 20

✓
Card 2/2

KARPENKO, I.V., doktor sel'khoz. nauk, zasl. deputat nauki RSFSR;
KLESHOV, N.N., akademik, retsenzent; TOLOVSKIY, N.I.,
prof., retsenzent; FILIPOV, G.I., prof., retsenzent;
IVANOV, S.Z. prof., retsenzent; GRACHEVA, V.S., red.
[Sugar-beet growing. Uverkhovalitve. Izd.3., perer. Mo-
skva, Kolos, 1974. 307 p.] (MIRA 17:1C)

ZEL'DOVICH, A.G.; PILIPENKO, Yu.K.

Improvement and acceleration of a VOl hydrogen liquiefier. Prib.
i tekhn. eksp. 8 no.4:191 Jl-Ag '63. (MIRA 16:12)

1. Ob"yedinennyj institut yadernykh issledovaniy.

GRISHANIN, Ye.I.; KUKAVADZE, G.M.; LEPENDIN, V.I.; MAMELOVA, I.Ya.;
MOROZOV, I.G.; ORLOV, V.V.; PILIPETS, E.T.

Measurement of the absorption cross section for Sc^{156} . Atom.
(MIKRO 18:1)
energ. 19 no.5:459-460 N '65.

ACC NR: AP7002172

SOURCE CODE: UR/0089/66/021/006/0514/0515

AUTHOR: Barchuk, I. F.; Pilipets, D. T.

ORG: none

TITLE: Method of checking the tightness of the fuel elements of the VVR-M reactor

SOURCE: Atomnaya energiya, v. 21, no. 6, 1966, 514-515

TOPIC TAGS: reactor fuel element, nuclear fission, fission product, metal cladding/
VVR-M reactor

ABSTRACT: The method described by the authors was developed at the Physics Institute of the Ukrainian Academy of Sciences in 1962. Its features are that the gaseous fission products accumulated in the fuel elements are extracted from an unsealed fuel element by vacuum into a large volume, after which they are gathered and concentrated in an ionization chamber whose volume is 100 times as small (Fig. 1). This greatly increases the sensitivity of the method. The current produced in the ionization chamber by the radioactive products from the fuel element serves as a criterion for determining the degree of its tightness. A procedure for applying this method under reactor conditions is described. The time it takes to test one fuel element is about one hour and requires the services of only one operator.

Orig. art. has: 1 figure.

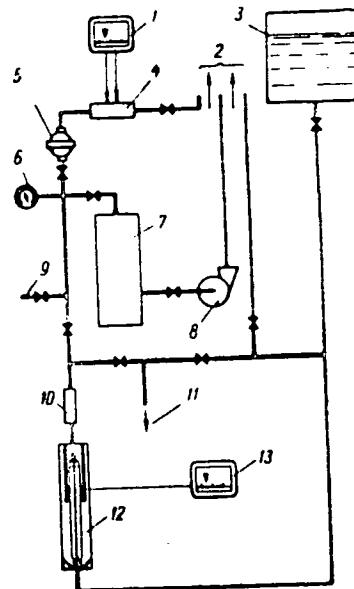
UDC: 621.039.547

Card 1/2

ACC NR: AP7002172

Fig. 1. Schematic diagram of installation for checking tightness of fuel elements: 1 - Measurement of ionization current, 2 - to special vent-
ilator, 3 - distillate tank, 4 - ionization chamber,
5 - filter, 6 - vacuum meter, 7 - forevacuum flask,
8 - forevacuum pump, 9 - compressed air, 10 - water-
measuring beaker, 11 - to special waste disposal,
12 - vacuum chamber, 13 - measurement of fuel ele-
ment temperature.

SUB CODE: 18/ SUBM DATE: 07Apr66



Card 2/2